

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
2026-4116US2SERIAL NO.
To Be Assigned

INFORMATION DISCLOSURE CITATION

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APPLICANT(S)
Bukh, et al.FILING DATE
May 26, 1998GROUP ART UNIT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>32</i>	5,427,909	6/27/95	Okamoto et al.			
<i>32</i>	5,372,928	12/13/94	Miyamura et al.			
<i>32</i>	5,350,671	9/27/94	Houghton et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>32</i>	JP 05 068562 A	3/23/93	Japan				X
<i>32</i>	WO 94 01778	1/20/94	PCT				
<i>32</i>	WO 92 19743	11/12/92	PCT				
<i>32</i>	WO 92 21759	12/92	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

<i>32</i>	Seo-Hee Cho et al.: "Genomic typing of hepatitis C viruses from Korean patients: implications of genome variation in the E2/NS1 region." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 196, no. 2, 29 October 1993, pages 780-788	
<i>32</i>	H.M. Müller et al.: "Genetic variability of German hepatitis C virus isolates" JOURNAL OF MEDICAL VIROLOGY, vol. 40, 1993, pages 291-306	
<i>32</i>	J.H. Han et al.: "Characterization of the terminal regions of hepatitis C viral RNA: Identification of conserved sequences in the 5'-untranslated region and poly{A} tails at the 3' end." PROC. NATL. ACAD. SCI. USA, vol. 88, no. 5, 1 March 1991, pages 1711-1715	
<i>32</i>	H. Okamoto et al.: "Characterization of the genomic sequences of type V {or 3a} hepatitis C virus isolates and PCR primers for specific detection" JOURNAL OF GENERAL VIROLOGY, vol. 74, 1993, pages 2385-2390	
<i>32</i>	A. Machida et al.: "Two distinct subtypes of Hepatitis C virus defined by antibodies directed to the putative core protein." HEPATOLOGY, vol. 16, no. 4, October 1992, pages 886-891	

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32	EP 0 586 065	3/9/94	European				
32	WO 95 01442	1/12/95	PCT				
32	WO 94 25601	11/10/94	PCT				
32	WO 94 27153	11/24/94	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

32	Simmonds P. et al., "Identification of genotypes of hepatitis C virus by sequence comparisons in the core, E1 and NS-5 regions," <u>Journal of General Virology</u> , 5:1053-1061 (1994)
32	Kao, J.H. et al., "Detection of divergent hepatitis C virus envelope sequences," <u>Journal of Biomedical Science</u> , 3:158-162 (1994)
32	Roggendorf, M. et al., "Variability of the envelope regions of HCV in European isolates and its significance as a diagnostic tool," <u>Archives of Virology Supplementum</u> , 7:27-39 (1993)
32	Li, Ji-Su et al., "Identification of the third major genotype of hepatitis C virus in France", <u>Biochem. Biophys. Res. Commun.</u> , 1474-81 (1994)

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						YES	NO
32	GB 221 251 1B	1/22/92	United Kingdom				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

32		Choo, O.L. et al. (1989) <u>Science</u> , 244:359-362
32		Weiner, A. J. et al. (1990) <u>Lancet</u> , 335:1-3
32		Kuo, G. et al. (1992) <u>Science</u> , 244:362-364
32		Okamoto, H. et al. (1992) <u>J. Gen. Virol</u> , 73:673-679
32		Bukh, J. et al. (1992) <u>Proc. Natl. Acad. Sci. U.S.A.</u> , 89:187-191
32		Bukh, J. et al. (1992) <u>Proc. Natl. Acad. Sci. U.S.A.</u> , 89:4942-4946
32		Cha, T. et al. (1992) <u>Proc. Natl. Acad. Sci. U.S.A.</u> , 89:7144-148

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32		Chan S-W. et al. (1992) <u>J. Gen. Virol.</u> , 73:1131-1141
32		Lee, C-H. et al. (1992) <u>J. Clin. Microbio</u> , 30:1602-1604
32		Choo, et al. (1991) <u>Proc. Natl. Acad. Sci. U.S.A.</u> , 88:2451-2455
32		Okamoto, et al. (1992) <u>Virology</u> , 188:331-341
32		Inchauspe, et al. (1991) <u>Proc. Natl. Acad. Sci. USA</u> , 88:10292-10296
32		Takamizawa, A. et al. (1991) <u>J. Virol.</u> , 65:1105-1113

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32		Kato, N. et al. (1990) <u>Proc. Natl. Acad. Sci. U.S.A.</u> , 87:9524-9528
32		Okamoto, H. et al. (1992) <u>Virology</u> , 190:894-899
32		Ogata, N. et al. (1991) <u>Proc. Natl. Acad. Sci. U.S.A.</u> , 88:3392-3396
32		Mori, S. et al. (1992) <u>Biochem. Biophys. Res. Comm.</u> , 183:334-342
32		Weiner, A.J. et al. (1991) <u>Virology</u> , 180:842-848
32		Hijikata, M. et al. (1991) <u>Biochem. Biophys. Res. Comm.</u> , 175:220-228

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5-13-01

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32		Okamoto, H. et al. (1990) <u>Japan. J. Exp. Med.</u> , 60:167-177
32		Takeuchi, K. et al. (1990) <u>J. Gen. Virol.</u> , 71:3027-3033
32		Chen P. J. et al. (1992) <u>Virology</u> , 188:102-113
32		Liu, K. et al. (1992) <u>Gene</u> , 114:245-250
32		Tanaka, T. et al. (1992) <u>Virus Research</u> , 23:39-53
32		Abe, K. et al. (1992) <u>J. Gen. Virol.</u> , 73, 2725-2729

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						YES	NO

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36			Honda, M. et al. (1993) <u>Arch. Virol.</u> , 128, 163-169
32			Stuyver, L. et al. (1993) <u>Biochem. Biophys. Res. Comm.</u> , 192:635-641
32			Okamoto, H. et al. (1994) <u>J. Gen. Virol.</u> , 75:629-635
32			Bukh, J. et al. (1993) <u>PNAS</u> , 90:8234-8238
32			Li, J., et al. (1991) <u>Gene</u> , 105:167-172
32			Houghton, M. (1991) <u>Hepatology</u> , 14:381-388

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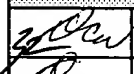
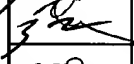
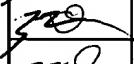
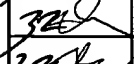
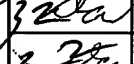

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	Machida, A. et al. (1992) <u>Hepatology</u> , 16:886-891
	Okamoto, H. et al. (1993) <u>J. Gen. Virol.</u> , 74:2385-2390
	Simmonds, P., et al. (1993) <u>J. Gen. Virol.</u> , 74:661-668
	Stuyver, L. et al. (1993) <u>J. Gen. Virol.</u> , 74:1093-1102
	Widell, A. et al. (1994) <u>J. Med. Virol.</u> , 44:272-279
	Qu D. et al. (1994) <u>J. Gen. Virol.</u> , 75:1063-1070

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32		Stuyver, L. et al. (1993) <u>J. Gen. Virol.</u> , 74:1093-1102
32		Tokita, H., et al. (1994) <u>J. Gen. Virol.</u> , 75:931-936
32		Stuyver, L., et al. (1994) <u>PNAS</u> , 91:10134-10138
32		Vlazow, S., et al. (1994) <u>J. Virol Meth.</u> , 48:81-92
32		Simmonds, P., et al. (1993) <u>J. Clin. Microbiol.</u> , 31:1493-1503

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32	Hayashi, N., et al. (1993) <u>J. Hepatol.</u> , 17 (suppl 3) S94-S107
32	Wang, Y., et al. (1993) <u>J. Med. Viro.</u> , 40:254-260
32	Tanaka, T., et al. (1994) <u>Hepatology</u> , 19:1347-1353
32	Sakamoto, M., et al. (1994) <u>J. Gen. Virol.</u> , 75:1761-1768

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